

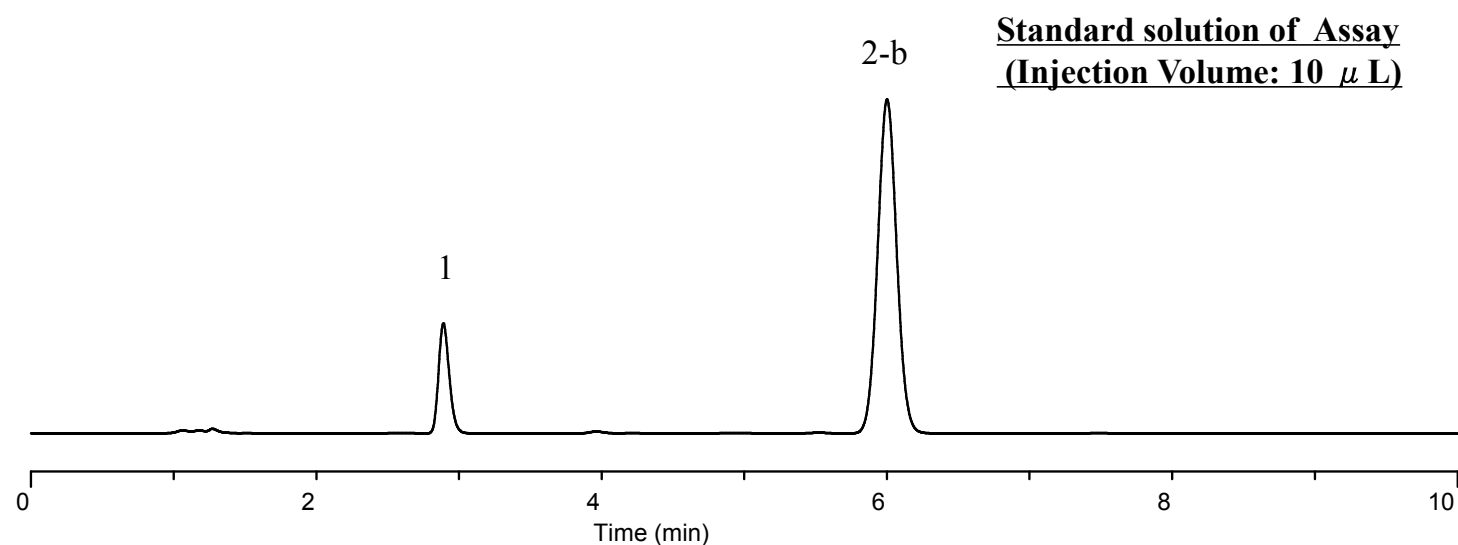
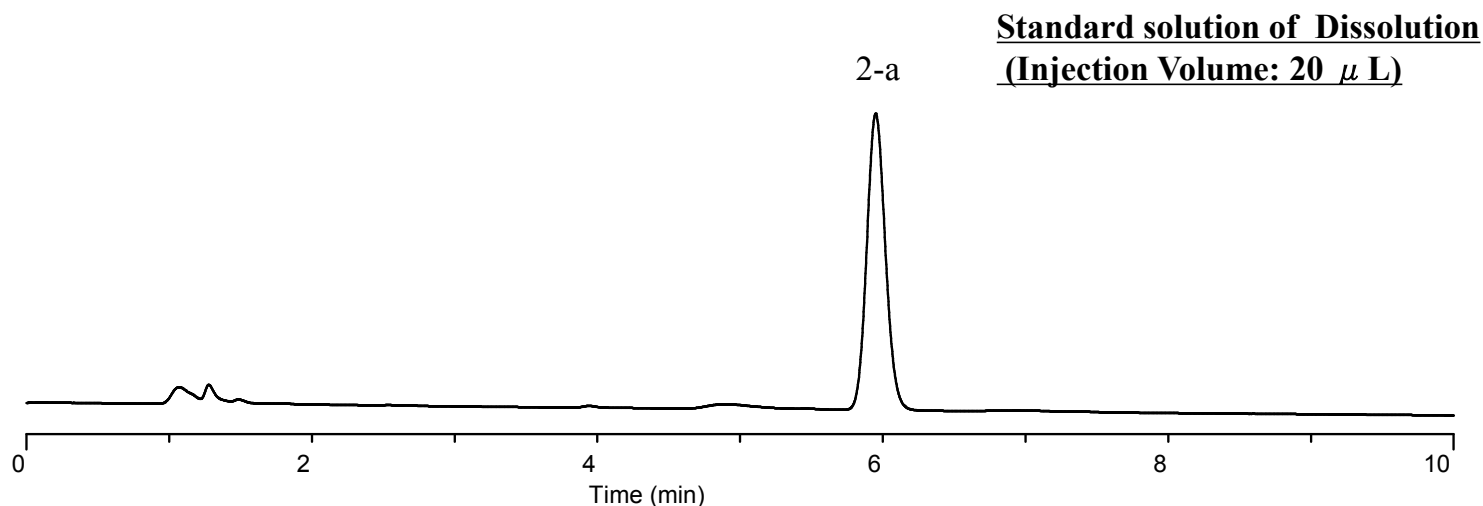
# InertSearch™ for LC

Inertsil™ Applications

## Analysis of Sodium Valproate

(Under the Condition of the draft for the Japanese Pharmacopoeia,  
Sodium Valproate Extended-release Tablets B)

Data No. LB532-0812



### Conditions

**System** : GL7700 HPLC system  
**Column** : InertSustain C18 (5  $\mu$  m, 150 x 4.6 mm I.D.)  
**Column Cat. No.** : 5020-07345  
**Eluent** : A) CH<sub>3</sub>CN  
          B) 50 mM NaH<sub>2</sub>PO<sub>4</sub> (pH 3.0, H<sub>3</sub>PO<sub>4</sub>)  
          A/B = 50/50, v/v  
**Flow rate** : 1.0 mL/min  
**Col. Temp.** : 25 °C  
**Detection** : UV 210 nm (UV7750 UV Detector)  
**Sample** : Standard

### Analyte:

1. Methyl *p*-hydroxybenzoate 4 mg/L  
2. Valproic acid  
220 mg/L (2-a) or 800 mg/L (2-b)

Theoretical plates (2-a) : 9,617 ( $\geq$  3,000)

Symmetry factor (2-a) : 1.10 ( $\leq$  2.0)

RSD of the peak area of

2-a (%) (n=6) : 0.23 ( $\leq$  1.0)

Resolution (1, 2-b) : 16.4 ( $\geq$  7)

RSD of the relative peak area of

2-b to 1 (%) (n=6) : 0.07 ( $\leq$  1.0)